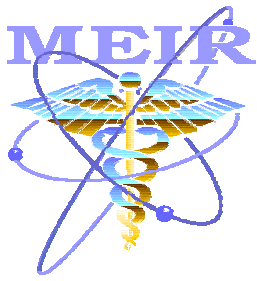


Medical Effects of Ionizing Radiation Course
Course Schedule
NUMI
Groton, CT
December 4-6, 2002



04 December 02 (Day 1)

0800 – 0810	Administrative Processing	Staff
0810 – 0840	Welcome and Introduction to the Threat <i>Discuss AFRRI's radiological program and introduce the threat.</i>	LTC Salter
0840 – 0940	Physical Principles of Ionizing Radiation <i>Describe the process by which radiation interacts with matter.</i>	LCDR Crapo
0950 – 1040	"Ten Seconds That Shook the World" <i>Discuss the development of nuclear energy through the first use of nuclear weapons during wartime.</i>	Film
1050 - 1140	Cellular Radiation Biology <i>Describe the energies released by ionizing radiation and their effects on biological systems.</i>	LCDR Lucas
1150 – 1250	Lunch	
1250 – 1350	Management of Internal Contamination <i>List the methods for removal of internally deposited radioactive materials in the body.</i>	Col Dickerson
1400 – 1500	"Suicide Mission to Chernobyl" <i>Summarize the lessons learned since the Chernobyl accident.</i>	Film
1500 – 1510	"Discussion of Chernobyl" <i>update on the Chernobyl accident.</i>	TBA

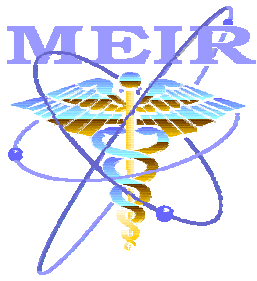


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05 December 02 (Day 2)

0800 - 0900	Psychological Factors of Ionizing Radiation <i>Describe psychological reactions of populations who are exposed to the effects of a nuclear detonation, and both real and perceived widespread radionuclide contamination.</i>	LTC Salter
0900 - 0950	Effects and Defense of Nuclear Weapons <i>Explain the effects and hazards of blast and thermal energy and fallout characteristics released from a nuclear detonation.</i>	LCDR Crapo
0955 - 1020	"Pre-Hospital Response to a Radiation Accident" <i>Recall the steps taken before transporting a radiologically contaminated patient to an emergency room.</i>	REAC/TS Film
1025 - 0950	"Emergency Department Response to a Radiation Accident" <i>Recall the steps taken from the time a contaminated patient enters a hospital emergency room until their transfer or release, including wound decontamination and protection of medical personnel.</i>	REAC/TS Film
1055 - 1200	Low Level (Late) Effects of Ionizing Radiation <i>Explain long-term, low-level, and chronic high-dose sub-lethal exposures of ionizing radiation.</i>	LCDR Lucas
1200 - 1300	Lunch	
1300 - 1430	Acute Radiation Syndrome & Trauma <i>Recall the underlying causes of radiation sickness. Explain the treatments available for persons affected by radiation sickness and treatments being developed.</i>	Col Dickerson
1430 - 1530	Preparation Time for Group Exercise <i>Groups meet together to prepare for the final exercise on the last day.</i>	Self-Paced



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06 December 02 (Day 3)

0800 – 0900	Human Radiation Exposure Experience <i>Discuss the effects of high levels of radiation exposure, both locally and systemically, in humans.</i>	LTC Salter
0910 – 1020	Discussion Groups Exercise <i>Explain medical management of radiological casualties</i>	Col Dickerson
1030 – 1100	Training Exercise <i>Demonstrates the procedures for managing decontamination, Radiac use, and triage situations.</i>	LCDR Crapo
1100 – 1130	Course Summation and Critiques	Staff